APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/844,924	04/26/2001	Craig S. Skinner	PALM-3609.US.P	8278

49637	7590	04/25/2006

BERRY & ASSOCIATES P.C.
9255 SUNSET BOULEVARD
SUITE 810
LOS ANGELES, CA 90069

EXAMINER
COLIN, CARL G

ART UNIT	PAPER NUMBER
2136	

DATE MAILED: 04/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _13 February 2006_ .

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-31_ is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _1-31_ is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on _26 April 2001_ is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)☐ The proposed drawing correction filed on _____ is: a)☐ approved b)☐ disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12)☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____ .

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) ☐ The translation of the foreign language provisional application has been received.

15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .

4)☐ Interview Summary (PTO-413) Paper No(s). _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: .

DETAILED ACTION

Response to Arguments

1.   In response to communications filed on 2/13/2006, the following claims 1-31 are

presented for examination.

2.   The amendment to the abstract, filed on 2/13/2006 has been considered and the objection

to the abstract has been withdrawn.

3.   Applicant's remarks, pages 3-7, filed on 2/13/2006, with respect to the rejection of claims

1-31 have been fully considered, but they are not persuasive. Examiner interpreted applicant's

argument in the previous response as arguing against the fact that in Beetcher the authorization

level is not assigned to the electronic device. Examiner asserted in the previous action with

citation that the authorization level is assigned to the electronic device. Regarding claims 1 and

20, Siefert was used to expedite the prosecution to show clearly further evidence that Applicant's

claimed limitation "wherein the first authorization level is assigned to the electronic device and

authorizes the electronic device to run controlled applications having authorization levels not

exceeding the first authorization level" is clearly taught by the prior art.   It appears that

Applicant has been argued in the response filed on 4/28/2005 and in the present response about

"authorizing the controlled device to run <u>controlled applications.</u>" Applicant states that Beetcher

does not disclose the first authorization level is assigned to the electronic device and authorizes

the electronic device to run <u>controlled applications</u> having authorization levels not exceeding the

first authorization level because there exists within Beetcher an assignment between an

encrypted entitlement key and a particular distributed software. Examiner respectfully disagrees.

The office action states, Beetcher et al. discloses that each customer receives an entitlement key

enabling the customer to run only those software modules to which he is entitled (column 4, lines

40-45) that meets the recitation of wherein said first authorization level authorized said

electronic device to run controlled applications having authorization levels not exceeding said

first authorization level. Beetcher et al. further discloses "Each customer is shipped a generic set

of software modules, the entitlement key contains information enabling system to determine

which software modules are entitled to execute on it" (column 6, lines 2-7). Beetcher cites,

"The contents of entitlement key 200 before encryption according to the preferred embodiment
are shown in FIG. 2. The key contains charge group field 201, software version field 202, key
type field 203, machine serial number field 204, and product entitlement flags 205. Charge
group 201 specifies one of 16 possible machine tier values, and is used for supporting tier
pricing of software. Software version 202 specifies the version level of the software which is
entitled. It is anticipated that separate charges may be imposed for maintenance upgrades of
software. The version 202 specified in the key 200 will entitle software at that version level and
all previous (lower) levels. Key type field 203 is a reserved area for future changes to the key
format, key chaining, or for an extension of the number of different product supported.
Machine serial number field 204 contains the serial number of the machine for which the
entitlement key is intended. Product entitlement flag 205 is an 80-bit field containing 80
separate product flags, each corresponding to a product number. The bit is set to `1` if the
corresponding product number is entitled; otherwise it is set to `0`." (column 6, lines
20-40).

Therefore, there is clear evidence that Beetcher discloses the claimed invention as

claimed. Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a

general allegation that the claims define a patentable invention without specifically pointing out

how the language of the claims patentably distinguishes them from the references.

Regarding Siefert, Applicant states "Siefert does not disclose or suggest key codes being

associated with an electronic device". Examiner respectfully disagrees. Siefert cites,

"A computer 36 in FIG. 6 is equipped with a key code KC_30. The key code can be burned
into Read Only Memory (ROM) which is a part of the hardware of the computer, by the
manufacturer of the computer. Alternately, the key code can be buried within the operating
system software, in a manner making it difficult to locate. In the latter case, a key code will be
assigned to each copy of the operating system software which is delivered, by the manufacturer
of the operating system. In either case, the key code is associated with the computer, is readable
by the microprocessor (not shown in FIG. 6) contained within the computer, and is stored in a
manner designed to impose significant difficulty upon a hacker seeking to learn, or modify, the
key code." (Column 6, lines 40-53).
        "Presently available software does not contain key codes. In order to
allow the computer 36 in FIG. 4 to run such software, several approaches are
possible. One is that, upon an order to launch a program, the invention
examines the header of the program to be launched, in order to determine the
release number, version number, edition number, or equivalent. The invention
is equipped with a table for various programs, indicating versions, editions,
etc., prior to which no key code is required. If the program to be launched is of a version,
edition, etc., requiring no key code, then the program is launched as usual. If the program is of
a later version, edition, etc., and does require a key code, then the program is required to pass
the security process 45." (column 7, lines 40-55).
        The system of Siefert is enabled to "(1) detect when a program launch is requested; then
(2) run a security process 45, which compares the key code of the computer with that of the
program to be run; then (3) allow launch, if the comparison meets predetermined criteria.
Preferably, the security process 45 is located within memory which is not made available to
users." (column 8, lines 50-56).

In response to applicant's argument that there is no suggestion to combine the references,

the examiner recognizes that obviousness can only be established by combining or modifying the

teachings of the prior art to produce the claimed invention where there is some teaching,

suggestion, or motivation to do so found either in the references themselves or in the knowledge

generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5

USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir.

1992). In this case, there has been teaching, suggestion, and motivation provided in the Office

action in the references themselves. To further clarify, Siefert provides a teaching as shown

above that uses authorization level assigned to the device to determine whether the device is

allowed to run controlled applications (applications that need to pass the security process) while

using a security process that is non-accessible to users to prevent hackers from compromising the

blockage of programs.

It remains the Examiner's position that claims 1-31 are still rejected in view of Beetcher

and Siefert.

Claim Rejections - 35 USC § 103

4.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or

described as set forth in section 102 of this title, if the differences between the subject matter

sought to be patented and the prior art are such that the subject matter as a whole would have

been obvious at the time the invention was made to a person having ordinary skill in the art to

which said subject matter pertains. Patentability shall not be negatived by the manner in which

the invention was made.

4.1   **Claims 1-31** are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent

5,933,497 to **Beetcher et al.** in view of US Patent 6,526,512 to **Siefert et al.**.

4.2   **As per claims 1 and 20, Beetcher et al.** discloses a method of security comprising the

steps of: enabling a computer system to execute a software module with an encrypted entitlement

key containing at least a machine serial number and version number that indicates sufficient

authority to execute that meets the recitation of a) enabling an electronic device to run a

controlled application with an encrypted record containing a copied serial number and a first

authorization level, for example (see column 6, lines 20-67); **Beetcher et al.** discloses that each

customer receives an entitlement key enabling the customer to run only those software modules

to which he is entitled (column 4, lines 40-45) that meets the recitation of wherein said first

authorization level authorized said electronic device to run controlled applications having

authorization levels not exceeding said first authorization level.   **Beetcher** also discloses other

entitlements such as charge group, key type, serial number of the machine, and product

entitlement field assigned to the device (see column 6, lines 20-40). In another embodiment,

Beetcher discloses in column 7, lines 1-16, other authorization levels that are hardware specific

assigned to said electronic device. There is suggestion in column 2, lines 49-53 that other

entitlement may also be machine specific entitlement or authorization level assigned to a

machine to make sure that a software is authorized to run on a specific machine. b) verifying

said electronic device is correctly enabled, for example (see column 6, line 65 through column 7,

line 47); and c) verifying said first authorization level is of sufficient authority to run said

controlled application on said electronic device, for example (see column 6, line 65 through

column 7, line 47); and wherein a second authorization level of said controlled application does

not exceed the first authorization level (column 7, lines 1-65). **Beetcher et al** suggests to add

protection by using entitlement that contains machine specific information and encoding it into

the software itself. **Siefert et al.** in an analogous art teaches key codes containing authorization

levels (column 2, lines 40-65) and the key codes (authorization levels) are assigned to an

electronic device and authorizes said electronic device to run controlled applications having

authorization levels not exceeding said first authorization level (see column 4, line 44 through

column 5, line 55). Therefore, it would have been obvious to one of ordinary skill in the art at

the time the invention was made to modify the method of **Beetcher et al** to include the step of

wherein the first authorization level is assigned to the electronic device and authorizes the

electronic device to run controlled applications having authorization levels not exceeding the

first authorization level as taught by **Siefert et al** (see column 4, line 44 through column 5, line

55). One of ordinary skill in the art would have been motivated to do so because the teaching of

Siefert provides detecting and controlling any program that is required to pass the security

process by doing the following: when a program launch is requested, running a key code process

of comparing the key code of the computer with that of the program to be run in order to

authorize execution of the program upon meeting predetermined criteria. One of ordinary skill

in the art would have recognized the advantage of preventing hacker from learning the identities

of the key codes and preventing hacker from learning how the security process run by assigning

key codes (authorization levels) to both the computer and the program by a match determination

process and using region of memory non-accessible to users to store the key codes (authorization

levels) as suggested by **Siefert et al** (column 7, lines 15-25 and column 7, line 50 through

column 8, line 35 and column 8, lines 50-67).

As per claims 2, 14, and 21, Beetcher et al. discloses the limitation of wherein step a)

comprises the steps of: a1) fetching a serial number uniquely associated with said electronic

device, said serial number located on said electronic device, for example (see column 7, line 47);

a2) copying said serial number, forming said copied serial number that is identical to said serial

number, for example (see column 6, lines 20-40); a3) creating a record that contains said copied

serial number and said first authorization level, said first authorization level previously assigned

to said electronic device, for example (see column 6, lines 20-40); a4) encrypting said record,

forming said encrypted record, for example (see column 4, lines 57-65 and column 8, lines 53-

65); and a5) storing said encrypted record in said electronic device, for example (see column 8,

lines 53-65). These claims are also rejected on the same rationale as the rejection of claim 1 for

reciting "said first authorization level previously assigned to said electronic device".

As per claims 3 and 22, Beetcher et al. discloses the limitation of wherein step b)

comprises the steps of: b1) locating said encrypted record, for example (see column 9, line 40

through column 10, line 20); b2) decrypting said encrypted record, if said encrypted record is

located, for example (see column 9, line 40 through column 10, line 20); b3) reading said copied

serial number from said encrypted record, if said encrypted record is successfully decrypted;

b4) fetching said serial number, for example (see column 9, line 40 through column 10, line 20);

and b5) comparing said serial number and said copied serial number, for example (see column 9,

line 40 through column 10, line 20 and column 13, lines 1-8).

As per claims 4 and 23, Beetcher et al. discloses the limitation of wherein step b) comprises the further step of executing said controlled application on said electronic device, said controlled application having controlled attributes, for example (see column 6, lines 40-67);

As per claims 5, 12, 24, and 31, the combination of **Beetcher et al** and **Siefert et al** discloses the limitation of wherein said step c) comprises the steps of: c1) reading said first authorization level from said encrypted record that is decrypted, if said serial number and said copied serial number match, for example (see **Beetcher et al,** column 9, lines 40-67 and column 10, lines 20-67); c2) comparing said first authorization level with a second authorization level assigned to said controlled application (**Beetcher et al,** column 10, lines 40-4 and column 7); and c3) allowing access to said controlled attributes of said controlled application, if said first authorization level is of an equal or higher authorization level than said second authorization level, for example (see **Beetcher et al,** column 10, lines 20-47 and column 4, lines 34-46). **Siefert et al** also discloses comparing first authorization level with second authorization level to authorize the computer to run controlled applications as discussed in claim 1. Therefore, these claims are also rejected on the same rationale as the rejection of claim 1.

As per claims 6, 15, and 25, Beetcher et al. discloses the limitation of wherein step a) is performed with object code instructions that meet the recitation of an enabler application, said enabler application enabling said electronic device to run applications having authorization levels equal to or lower than said first authorization level, for example (see column 8, lines 48-67 and column 4, lines 34-46).

As per claims 8, 9, 18, 19, 27, and 28, the combination of **Beetcher et al** and **Siefert et al** discloses the limitation of comprising the further step of: aborting said application and denying access if any of the following conditions are met: said encrypted record is not successfully located in step b1) ; said encrypted record is not successfully decrypted in step b2); said serial number and said copied serial number do not match in step b5); or said first authorization level is of a lesser value than said second authorization level in step c2) , for example (see **Beetcher et al**, column 8, lines 48-67 and column 4, lines 34-46 and column 10, lines 20-67).

Claims 13 and 16 contain some of the limitations of the rejected **claims 1-5**. Therefore, **claims 13 and 16** are rejected on the same rationale as the rejection of **claims 1-5**.

As per claim 17, **Beetcher et al.** discloses the limitation of wherein the same encryption/decryption protocol is used in performing steps c) and m), for example (see column 13, lines 5-18).

As per claims 7 and 26, Beetcher et al. substantially teaches the claimed method of claims 6 and 25. **Beetcher et al.** does not explicitly teach removing said enabler application from said electronic device after successfully completing step a). However, **Siefert et al.** in an analogous art teaches control access to enhance security of resources where a match determination process can take actions of erasing part or all of the program to defeat running of

the program, for example (see column 7, lines 35-40). **Siefert et al.** also adds, hiding

process/codes or removing or placing them in separate memory or non-accessible memory

locations can prevent hackers to trace the logic of codes, for example (see column 7, line 40

through column 8, line 5). Therefore, it would have been obvious to one of ordinary skill in the

art at the time the invention was made to modify the method of **Beetcher et al.** to remove said

enabler application from said electronic device after successfully completing step a) as taught by

Siefert et al. One skilled in the art would have been lead to make such a modification because it

would make the security process non accessible to hackers, as suggested by **Siefert et al** for

example (see column 7, line 40 through column 8, line 35).

As per claims 10-11 and 29-30, Beetcher et al. discloses locking in memory the version

number the product number, serial number etc. and also discloses codes stored in read-only

memory (ROM) to make it not capable of alteration by customers, for example (see column 7,

lines 15-30 and column 9, lines 49-67). It is well known in the art of computer security that

computers have flash memory and using a flash memory will not depart from the spirit and scope

of the invention of **Beetcher et al..** **Siefert et al.** also discloses using read-only memory (ROM)

for the encrypted data and serial number. Therefore, it would have been obvious to one of

ordinary skill in the art at the time the invention was made to store said encrypted record and

serial number in locked flash record in said electronic device as suggested by **Beetcher et al.**

One skilled in the art would have been lead to make such a modification to prevent alteration of

these data by customers.

Conclusion

5.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

5.1   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Carl Colin whose telephone number is 571-272-3862. The

examiner can normally be reached on Monday through Thursday, 8:00-6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Carl Colin

Patent Examiner

April 17, 2006

CHRISTOPHER REVAI
PRIMARY EXAMINER